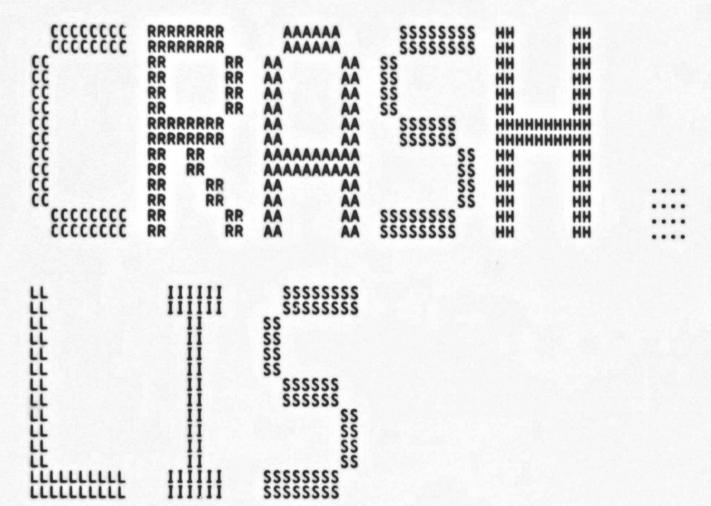
\$	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	AAAAAAA AAAAAAA AAAAAAA
\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	DDD DDD	AAA AAA
\$\$\$ \$\$\$ \$\$\$	DDD DDD DDD DDD	AAA AAA
\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$	DDD DDD DDD DDD	AAA AAA
SSSSSSSSS	DDD DDD	AAA AAAAAAAAAAA
\$\$\$ \$\$\$ \$\$\$	DDD DDD DDD DDD	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
\$\$\$ \$\$\$ \$\$\$	DDD DDD	AAA AAA
\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$	DDDDDDDDDDDD DDDDDDDDDDDD DDDDDDDDDDDD	AAA AAA AAA AAA

CR



CRASH Table of co	ontents	DISPLAY CRASH RELATED INFORMATION 6	16-SEP-1984 01:25:55	VAX/VMS Macro V04-00	Page
(1) (1) (2) (3) (4) (5) (6) (7)	29 63 76 92 113 353	COPYRIGHT NOTICE PROGRAM DESCRIPTION DECLARATIONS STORAGE DEFINITIONS READ-ONLY DATA DEFINITIONS DISPLAY CRASH DISPLAY CRASH INFORMATION PRINT HEADER PRINT THE DUMP FILE HEADER BLOCK GET_DUMP_INFO GET DUMP HEADER INFO	s		

CRA VO4

CRA Syn

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SAI SD CR

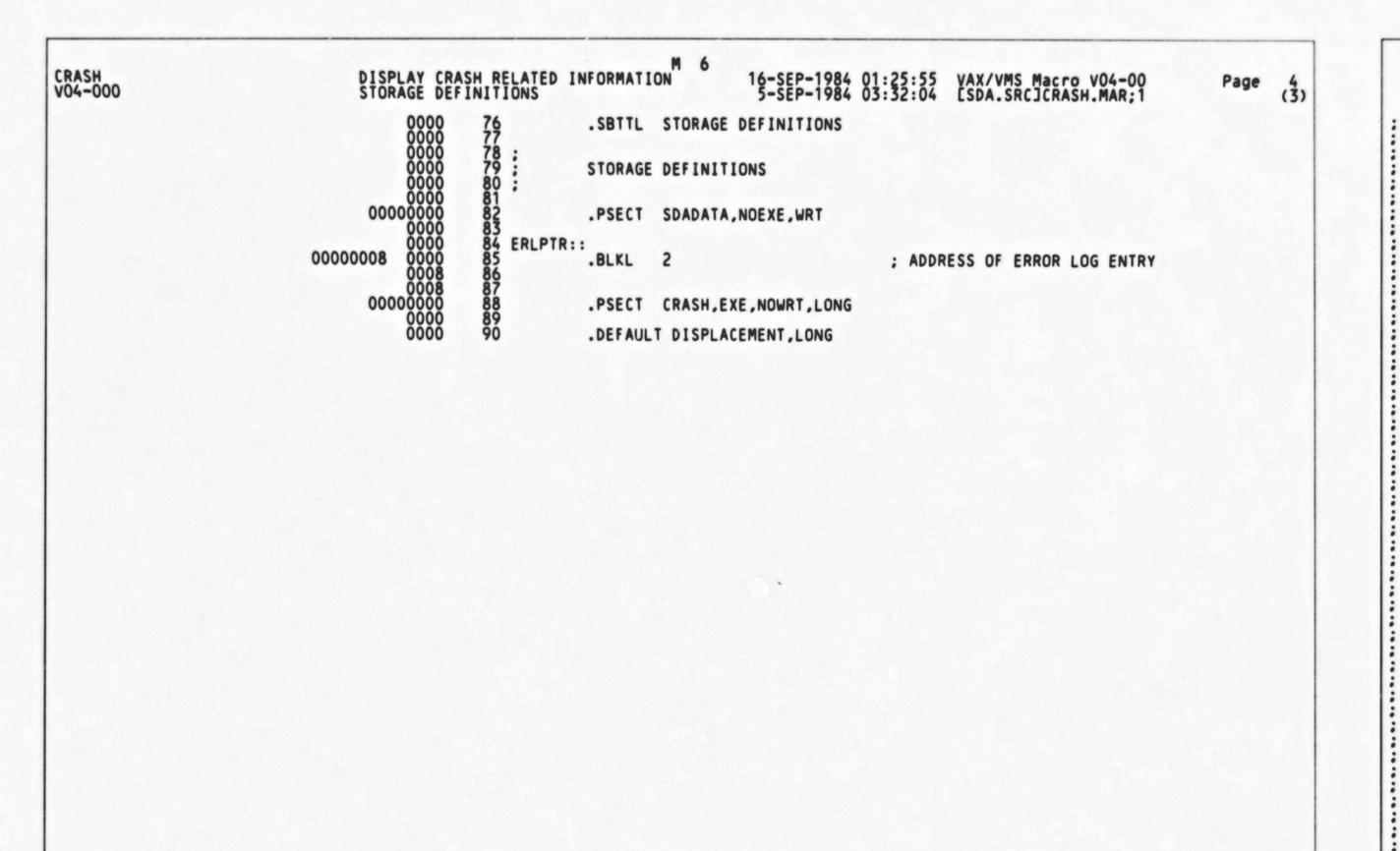
---

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CRASH V04-000	DISPLAY CRASH RELATED INFORMATION 16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 Page (
	0000 63 .SBTTL DECLARATIONS
	0000 63 .SBTTL DECLARATIONS 0000 64: 0000 65: SYMBOL DEFINTIONS 0000 66: 0000 67: SDMPDEF : DUMP FILE DEFINITIONS
	O000 64: O000 65: O000 65: O000 66: O000 66: O000 67: O000 68: O000 68: O000 69: O000 70: O000 71: O000 71: O000 72: O000 73: O000 74: O000 74: O000 74: O000 74: O000 74: O000 75: O000 75: O000 75: O000 76: O000 77: O00
	0000 69 SERLDEF : ERROR LOG DEFINITIONS 0000 70 SPCBDEF : PROCESS CONTROL BLOCK
	0000 72 \$IFDDEF : IMAGE FILE DESCRIPTOR
	0000 73 SPSLDEF : PROGRAM STATUS LONGWORD SYSTEM BLOCK



LII

LIB VO4

```
.SBTTL DISPLAY_CRASH -- DISPLAY CRASH INFORMATION
                                                            DISPLAY_CRASH
                                                            THIS ROUTINE DISPLAYS ALL RELATED INFORMATION REGARDING THE SAVED STATE OF THE PROCESSOR AT THE TIME OF THE SYSTEM BUGCHECK EXCEPTION.
                                           122
123
124
125
126
127
128
130
                                                      INPUTS:
                                                            NONE
                                                      OUTPUTS:
                                                            NONE
                                                            .ENABL LSB
                        020C
                                                            .ENTRY DISPLAY_CRASH, - ^M<R2,R3,R9>
                                                                       <System crash information>
PAGE
                                                            SUBHD
                                                                                                                    : SET NEW HEADING
                                                            SKIP
                                                           ALLOC 24,R2; ADDRESS OF E
SASCTIM_S TIMADR=EMB$Q_CR_TIME(R9),TIMBUF=(R2)
PUSHL R2
       00000000'EF
                           DO
                                                                                                          : ADDRESS OF ERROR LOG ENTRY
                                                                                                            ALLOCATE SPACE FOR DATE/TIME
                    52
                           DD
                                                            PRINT
                                                                       1, <Time of system crash: !AS>
                                 0066
                                                            GETMEM
                                                                       asys$GQ_VERSION,-(SP)
                                                                                                            GET SYSTEM VERSION
                    5E
                                                                                                            ADDRESS OF STRING
LENGTH OF STRING
                                                            PUSHL
                                                                       SP
                           DD
                                                            PUSHL
                                                                       3, <Version of system: VAX/VMS VERSION !AD>
G*SCS$GA_LOCALSB, R3 ; Get address of lo
#SB$S_NODENAME, SP ; Make scratch space
SP, RZ ; Save address of second spaces.
                                                            PRINT
                           D0
C2
D0
       00000000 GF
53
                                                            MOVL
                                                                                                            Get address of local system block
                    10
5E
                                                            SUBL
                                                                                                            Make scratch space for node name
                                                                                                            Save address of scratch
                                                            MOVL
                                                                       SB$T_NODENAME(R3), -
(R2), #SB$S_NODENAME
                                                            GETMEM
                                                                                                            Get node name
                                                                                                          : Is the node name null? : Branch if null node name
                                                            TSTB
                                                            BEQL
                                                            SKIP
                    52
                           DD
                                                            PUSHL
                                                                                                          ; Push node name copy address
                                           160
161
                                                                       1.<VAXcluster node name: !AC>
                                                15$:
                                           162
163
164
165
166
167
168
                                                                       #-3,EMB$L_CR_CODE(R9),R0
 00F4 C9
               FD 8F
                                                            ASHL
                                                                                                                        MESSAGE NUMBER
                                                                                                           SKIP IF NO MESSAGE ADDRESS OF MESSAGES
                                                            BEQL
       00000000 EF
                                                            MOVAB
                                                                       L^BUG$T_MESSAGES,R1
                                                20$:
                                                            MOVZBL
ADDL2
                                                                                                          ; LENGTH OF MESSAGE
                                                                       (R1)+,R2
                                                                                                         SKIP TO NEXT MESSAGE
                                                                       R2.R1
R0.20$
                                                            SOBGTR
                                                                                                          : LOOP UNTIL FOUND
```

Page 7 (5)

		5	51 DD	00E0 11 00E2 11 00EB 11	70 71 72 73	PUSHL SKIP PRINT	R1 2 1, <reason bugcheck<="" for="" th=""><th>: ADDRESS OF BUGCHECK MESSAGE exception: !AC&gt;</th></reason>	: ADDRESS OF BUGCHECK MESSAGE exception: !AC>
			50 E9 7C 7C 5E 7C 5E DO	010A 17	74 25\$: 75 76 77 78 79 80 81 82 83	GETMEM BLBC CLRQ CLRQ MOVL GETMEM PUSHL SKIP PRINT	aschsgl_curpcb R0,26\$ -(SP) -(SP) SP,R2 PCBST_LNAME(R1),(R2),#10 R2	GET CURRENT PROCESS'S PCB BRANCH IF DATA NOT AVAILABLE INITIALIZE A BUFFER TO HOLD THE CURRENT PROCESS'S NAME REMEMBER ADDRESS OF BUFFER GET CURRENT PROCESS'S NAME PROCESS NAME
		5E 1	0 co	0128 18 0135 18 0138 18	83 84 85 26\$:	PRINT	1, <process currently="" exemple,="" sp<="" td=""><td>cuting: !AC&gt; ; CLEAN BUFFER OFF STACK</td></process>	cuting: !AC> ; CLEAN BUFFER OFF STACK
7E	5E 0000	0000'E 4B 5 3E 5 500FF 8 50 5		0160 19 0163 19 0166 19 0160 19 0170 19 0182 19 0185 19 0187 19	86 87 88 89 90 91 92 93 94 99 99 99	CVTWL SUBL MOVL TRYMEM BLBC PUSHL SKIP PRINT	#0, CURPROC MMG\$IMGHDRBUF,R1 4(R1),R2 R0,30\$ IFD\$W_FILNAMOFF(R1) R0,30\$ R1,R1 #255,SP SP,R0 (R2)[R1],(R0),#255 R0,30\$ SP 2 1+<255/4>, <current image<br="">#PSL\$V_IPL,#PSL\$S_IPL,EP 2 1,<current !ul="" (de<="" ipl:="" td=""><td>MB\$L_CR_PSL(R9),-(SP)</td></current></current>	MB\$L_CR_PSL(R9),-(SP)
		FE02 C 81 5 6 6 7	7 CB F DE 60 D1 106 13 107 12 17 12 19 DD	01B0 01BD 01BD 01C6 01DE 01F4 01F4 01F4 01F4 01F4 01FF 01FF 01FF	30\$: 02 30\$: 05 06 06 07 08 09 11 13 11 14 11 15 11 16 11 17 11 18 11 18	BACK FR	O, <general registers:="">  BUGCHECK CODE WAS ANY OF OM THE CONSOLE ROM VIA POPRINT THE REGISTERS AS TO W7, EMB\$L CR CODE (R9), RO RESTART_BUGS, R1  RO, (R1)+ 45\$ (R1) 40\$ 50\$  EMB\$L_CR_R11(R9)  EMB\$L_CR_R10(R9)</general>	OWERFAIL RESTART, THEN

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LIB VO4

23333

33333

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	DISP	LAY CRASH R	ELATED I	D 7 INFORMATION 16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 Page 8 INFORMATI 5-SEP-1984 03:32:04 [SDA.SRC]CRASH.MAR;1 (5)
0084 C9 7C A9 78 A9	DD DD DD	22233333333333333333333333333333333333		PRINT 2, _PC = !XL PSL = !XL SKIP 1  PRINT 0, _Remaining registers not available wiped out by console SKIP 1  PRINT 0, <processor registers:=""> SKIP 1  PUSHL EMB\$L_CR_SCBB(R9) PUSHL EMB\$L_CR_SLR(R9) PUSHL EMB\$L_CR_SBR(R9) PRINT 1,<!--_SBR = !XL--></processor>
021F	31	02/6 238	508.	PRINT 1. SLR = !XL PRINT 1. SCBB = !XL BRW 60\$; PRINT KSP-ISP REGISTERS
30 A9 20 A9 28 A9 24 A9	DD DD DD	0286 241 0289 242 028C 243 028F 244 0292 245	50\$:	PUSHL EMB\$L_CR_R3(R9) PUSHL EMB\$L_CR_R2(R9) PUSHL EMB\$L_CR_R2(R9)
40 A9 3C A9 38 A9 34 A9	DD DD DD	029F 246 02A2 247 02A5 248 02A8 249		PUSHL EMB\$L CR RO(R9)  PRINT 4, R0 = !XL R1 = !XL R2 = !XL R3 = !XL PUSHL EMB\$L CR R7(R9)  PUSHL EMB\$L CR R6(R9)  PUSHL EMB\$L CR R5(R9)  PUSHL EMB\$L CR R4(R9)  PRINT 4, R4 = !XL R5 = !XL R6 = !XL R7 = !XL PUSHL EMB\$L CR R11(R9)  PUSHL EMB\$L CR R11(R9)  PUSHL EMB\$L CR R10(R9)  PUSHL EMB\$L CR R10(R9)  PUSHL EMB\$L CR R9(R9)
50 A9 4C A9 48 A9 44 A9	DD DD DD	02A8 249 02AB 250 02B8 251 02BB 252 02BE 253 02C1 254		
60 A9 50 A9 58 A9 54 A9	DD DD DD	02D1 256 02D4 257 02D7 258 02DA 259		PUSHL EMB\$L_CR_PC(R9) PUSHL EMB\$L_CR_SP(R9) PUSHL EMB\$L_CR_FP(R9) PUSHL EMB\$L_CR_AP(R9)
64 A9	DD			PRINT 4, AP = !XL FP = !XL SP = !XL PC = !XL PUSHL EMB\$[ CR_PSL(R9) PRINT 1, PSL = !XL SKIP 4 ENSURE 10 PRINT 0, <processor registers:=""> SKIP 1</processor>
		0331 268 0331 269	: We ca : value	n't use the CPUDISP macro here because we have to get the EXE\$GB_CPUTYPE from the appropriate dump file.
09 50	E9	02EA 263 02ED 263 031B 265 031B 265 0331 265 0331 265 0331 267 0331 273 0331 273 0331 273 0331 273 0341 273 0341 275 0341 275 034A 281 034A 281 034A 281 034A 281 034A 281 034A 281		GETMEM
		034A 279		11/780 INTERNAL REGISTERS
009C C9 0080 C9 68 A9	DD DD	034A 281 034E 282 0352 283	780\$:	PUSHL EMB\$L_CR_ACCS(R9) PUSHL EMB\$L_CR_PCBB(R9) PUSHL EMB\$L_CR_POBR(R9)

LIE VO4

PUSHL

PUSHL PRINT

PUSHL PRINT

SKIP

60\$:

DD

DD

DD

0098 (9

LIB VO4

ICR = !XL CMIERR = !XL>

> TODR = !XL>

LIE VO4

.DSABL LSB

11 (6)

EXTZV

BEQL

105:

13 00 11 #PSL\$V\_CURMOD, #PSL\$S\_CURMOD, EMB\$L\_CR\_PSL(R9), R1
10\$
EMB\$L\_CR\_KSP(R9)[R1], EMB\$L\_CR\_SP(R9); FIX SP\_VALUE

#PSL\$V\_IS,EMB\$L\_CR\_PSL(R9),5\$ ; BRANCH IF ISP

LIE

VO

CRASH Symbol table	DISPLAY CRASH	RELATED	INFORMATION	16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 5-SEP-1984 03:32:04 [SDA.SRC]CRASH.MAR;1	Page	14
ALLOCATE  ARGS BUGST MESSAGES BUGS THMONIS BUGS THMONIS BUGS THMONIS BUGS THALT BUGS FALT BUGS F	= 00000003 ******* ******* ******* ******* ******	03	EMB\$L_CR_SBISCEMB\$L_CR_SBITA EMB\$L_CR_SBITA EMB\$L_CR_SBR EMB\$L_CR_SCBB EMB\$L_CR_SISR EMB\$L_CR_SISR EMB\$L_CR_SP EMB\$L_CR_SP EMB\$L_CR_TBDR EMB\$L_CR_TBDR EMB\$L_CR_TBDR EMB\$L_CR_TBDR EMB\$L_CR_TBDR EMB\$L_CR_TIME EMB\$L_CR_TBDR EMB\$L_CR_SP EMB\$L_CR_SP EMB\$L_CR_SP EMB\$L_CR_TBDR EMB\$L_CR_SP EMB	= 00000084 = 00000080 = 00000084 = 0000008C = 0000005C = 0000005C = 00000018 = 000000000 = 00000000000000 = 0000000000		

LIE

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## ! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
*ABS . \$ABS\$ SDADATA CRASH LITERALS	00000000 ( 0.) 00000000 ( 0.) 00000008 ( 8.) 0000069D ( 1693.) 000006CC ( 1740.)	00 ( 0.) 01 ( 1.) 02 ( 2.) 03 ( 3.) 04 ( 4.)	NOPIC USR CON NO N	ON ABS ON ABS ON REL ON REL ON REL	LCL NOSHR NOEXE LCL NOSHR EXE LCL NOSHR NOEXE LCL NOSHR EXE LCL NOSHR EXE	E RD WRT NOVEC BYTE E RD WRT NOVEC BYTE E RD NOWRT NOVEC LONG

## Performance indicators !

Phase	Page faults	CPU Time	<b>Elapsed Time</b>
Initialization	35	00:00:00.06	00:00:00.93
Command processing	35 146 297	00:00:00.48	00:00:03.66
Symbol table sort	0	00:00:00.61	00:00:01.00
Pass 2	111	00:00:01.50	00:00:05.27
Symbol table output Psect synopsis output	13	00:00:00.06	00:00:00.08
Cross-reference output	Ö	00:00:00.00	00:00:00.00
Assembler run totals	608	00:00:08.56	00:00:35.11

The working set limit was 1650 pages.
52887 bytes (104 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 573 non-local and 70 local symbols.
495 source lines were read in Pass 1, producing 32 object records in Pass 2.
31 pages of virtual memory were used to define 30 macros.

## ! Macro library statistics !

Macro Library name	Macros defined
_\$255\$DUA28:[SDA.OBJ]SDALIB.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	10 10 7
TOTALS (all libraries)	27

745 GETS were required to define 27 macros.

CRASH

Psect synopsis

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: CRASH/OBJ=OBJ\$: CRASH MSRC\$: CRASH/UPDATE=(ENH\$: CRASH)+EXECML\$/LIB+LIB\$: SDALIB/LIB

0351 AH-BT13A-SE

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